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HURRICANE HARVEY MANAGEMENT REPORT

Information contained in this report reflects HQ and regional reporting from the most recently completed operational period as well as other reports provided by HQ, regional and interagency sources. The Senior Leadership Briefing and DHS Component Actions Reports are attached.

National Incident Management Objectives

- Objective 1: Ensure that health and safety of the EPA response is considered at all times.
- Objective 2: Establish an incident management structure and processes employing the Incident Command System to enable effective overall management of the event with deployment of resources (staff and equipment) in a rapid, aggressive and well-coordinated manner.
- Objective 3: Ensure prompt review and processing of Fuel Waiver requests.
- Objective 4: Prepare for and provide Rapid Assessment of industrial facilities as requested by the States or under EPA's statutory program responsibilities for CERCLA Superfund, RMP and FRP facilities. Working with agencies in affected States, contact industrial sources within the impacted areas to determine their operational status and determine what support can be provided with the monitoring of the start-up of industrial sources along the coastal areas.
- Objective 5: Prepare for and provide Rapid Assessment & Technical Assistance Drinking Water & Wastewater facilities as requested by the State or local government. EPA will support State agencies in contacting drinking water and waste water systems.
- Objective 6: Prepare a Sustained Response Plan that outlines the resource and equipment needs for a long duration response.
- Objective 7: Activate the Agency's Crisis Communication Plan to insure effective and efficient coordination of all incident communications.
- Objective 8: Encourage a collaborative federalism approach, where national state and local governments interact cooperatively and collectively to solve common problems.

Executive Summary

- EPA Acting Regional Administrator will accompany the Texas Governor to Corpus Christi, Houston, Victoria, Fort Bend County, and Beaumont.
- EPA Senior Advisors to the Administrator completed tours of the areas impacted by Harvey.
- EPA continues to monitor air quality in neighborhoods surrounding the Valero Houston Refinery utilizing the Trace Atmospheric Gas Analyzer (TAGA). Results do not indicate levels of concern for the community.
- EPA is embedded with response partners and continues drinking water and waste water (DW/WW) system assessments, hazard evaluations, and container recovery operations, working closely with state and local partners. The Alabama-Coushatta Tribe provided EPA a comprehensive update of the impact the storm had on two drinking water systems and two sewer treatment plants on the reservation, no major issues were found.
- An EPA remedial manager is onsite and overseeing the assessment at San Jacinto Waste Pits Superfund site.
- EPA began deploying Community Liaisons to the Houston area on September 6th to integrate into 38 County Emergency Operations Centers (EOCS) throughout the impacted area to disseminate information regarding the environmental hazards related to flood waters, mold, residential drinking water well testing, and an array of other issues.
- EPA is coordinating with US Coast Guard (USCG) on a 2500-gallon fuel oil spill at the Houston Magellan facility.
- An EPA Senior Agency Representative has been established at the federal Joint Field Office (JFO) in Austin with arrival expected Thursday, September 7th.
- EPA hosted a call with Environmental Justice (EJ) contacts in Texas and Louisiana to discuss community concerns regarding impacted areas and is establishing an EJ Network that will host weekly calls.

Region 6 Significant Activities:

The Region 6 REOC is currently activated and working under a limited Emergency Support Function (ESF) 10 FEMA Mission Assignment (MA). In addition, Region 6 has received an MA to assist TX with drinking water, wastewater, and hazmat recovery operations. This MA, for almost \$8.6 million, added 184 EPA and Coast guard (CG) personnel to the Texas Commission on Environmental Quality (TCEQ) Harvey response in Corpus Christi, Houston, and surrounding impacted areas. An additional MA for \$20,000 has been issued to deploy EPA employees to various locations which include but are not limited to the TX EOC and the FEMA RRCC to support response operations. An additional \$255,000 was added to MA 4332DR-TX-01 bringing the total to \$275,000 for providing an EPA representative at the FEMA RRCC and two EPA representatives to the TX EOC.

Mission Assignment Number	Funding Amount	Description of Assignment
MA4332DRTX3	\$8,592,000	R6 Field Ops incl. assessing drinking & waste water infrastructure, implementation of Response Manager tracking system, response to hazardous substances & oil discharges or releases.
MA4332DRTX1	\$275,000	Deployment of EPA to various locations, including but not limited to TX EOC and the FEMA RRCC to support response operations.
Total Funds	\$8,867,000	

Number of R6 Personnel Involved:

Personnel	EPA R6 Dallas	FEMA Denton	Texas JFO Austin	TX SOC Austin	TCEQ Austin	Houston	Corpus Christi	Beaumont/Port Arthur	Totals
R6	46	1	3	3	10	36	21	5	125
START	8	0	0	1	1	11	9	4	34
ERRS	0	0	0	0	0	7	8	0	15
Other Contractor	1	0	0	0	0	0	0	0	1
TOTAL	55	1	3	4	11	54	38	9	175

Container Recovery Operations:

Date	Containers			Total
	Drums (55gal)	Small Containers (<55gal)	Large Containers (>55gal)	
9/6/2017	1	3	1	5
Total to Date	50	35	6	96

Houston, TX:

EPA confirmed that a tank at the Valero facility had a leak which occurred on August 26th due to storm and flooding. EPA also confirmed that Valero took action to respond to and repair the leak. EPA's air monitoring performed onsite and around the facility does not indicate levels of concern for the community.

EPA is coordinating with US Coast Guard (USCG) on a 2500-gallon fuel oil spill at the Houston Magellan facility. Cleanup of product outside of containment was completed on September 5th. Product outside of the containment area is currently being collected.

Hazard Evaluation teams identified an approximately 1,000-gallon tank located in Winnie, TX. A second orphaned 55-gallon, closed top, poly drum was identified at a separate location, but was inaccessible due to high water. The sites have been logged for future response action.

Beaumont, TX:

The City of Beaumont restored power to Beaumont's wastewater treatment plant (WWTP) and the system is currently pumping water. Due to previous low pressures, the city remains under a boil water notice. Groundwater wells remain offline. Pumps providing water to the plant from the Neuces River are currently operational. TCEQ, EPA, and members of the Texas Optimization Program for Surface Water Plants (TOPS), and city staff continue to focus on drinking water issues at the plant.

EPA responded to an active discharge that was reported at an abandoned leaking well in Orangefield. EPA contractors have placed sorbent padding and boom to contain the discharge. A hazard evaluation team has also identified a potential release from a rail car and the Texas General Land Office (TGLO) is taking the lead for coordination of the response. Teams were scheduled to perform ground assessments with TGLO and TCEQ on September 6th.

EPA Headquarters Significant Activities:

The HQ EOC is activated to Level 1 in support of the Region 6 response to Tropical Storm Harvey and Hurricane Irma. The HQ EOC is coordinating on several levels with Region 6 and other Federal agencies. The HQ EOC has deployed personnel to the FEMA NRCC to staff the ESF #10 desk. EPA Senior Management that comprise the Policy Coordinating Committee (PCC) developed and issued senior management objectives that form the basis of field strategy and tactics in response to Harvey.

Headquarters Mission Assignments:

Mission Assignment Number	Funding Amount	Description of Assignment
MA4332DRTX1	\$10,000	FEMA HQ ESF-10 Desk Support
4332DRTXEPA02	\$40,000	FEMA HQ ESF-10 Desk Support
Total Funds	\$50, 000	

Number of HQ Personnel Involved in the EOC:

Personnel	AO	OAR	OCFO	OCSP	OECA	OEI	OGC	OLEM	OP	ORD	OW	R3	ATSDR	Totals
Employees	1	1	0	2	0	1	1	15	1	2	1	1	1	27
Contractors	0	0	0	0	0	3	0	4	0	0	0	0	0	7
TOTAL	1	1	0	2	0	4	1	19	1	2	1	1	1	34

National Incident Management Team (N-IMAT):

EPA activated and deployed the N-IMAT (highly skilled response personnel from Regions 3, 4, and 5) to advise and assist R6 with response activities. N-IMAT is now located in Corpus Christi.

Criminal Investigation Division (CID):

EPA's Criminal Investigation Division (CID) Quick Reaction Team (QRT), now comprised of 22 EPA-CID Special Agents, is supporting the Houston Police Department in the area of Buffalo Bayou under ESF 13. QRT joins several hundred federal law enforcement officers from multiple departments and agencies in TX supporting ESF-13 missions. Several QRTs under ESF 13 are being re-routed and re-tasked to support Hurricane Irma.

Superfund NPL Sites: EPA has conducted Rapid Response Assessments at all 43 Federal Superfund sites in the impacted areas using aerial images as well as direct contact with companies who are responsible for on-going cleanup activities. EPA has determined that 41 Superfund sites in the area do not show damage or excessive flooding associated with Harvey. EPA determined that two sites (San Jacinto River Waste Pits and US Oil Recovery) required further inspection.

- San Jacinto: Crews found that the armor cap had eroded and initiated repairs on September 4th. An area of the southern berm where the outside part of the berm had washed out was repaired with stabilized sand. The cover over the waste material was intact and no waste was exposed. EPA is activating its Dive Team to oversee Potential Responsible Parties (PRP) activities at the site and to confirm any anomalies.
- US Oil: On September 5th, the PRP Group pumped storm water from treatment facilities at the site and worked to make sure that enough freeboard was available for future rain events. An overflow from the facility was observed and determined to be local. No sheen or odor was found. The PRP Group has identified the problem that caused the overflow and developed a plan to fix it.

The table below contains detailed information on the 43 sites.

Superfund Sites within Federally Declared Counties						
Hurricane Harvey Rapid Response Assessment	Phase 1	Phase 2		Phase 3	All Phases Completed	County
	Rapid Response Assessment	Site Inspection Needed	Inspected	Additional Response Action		
TEXAS						
ALCOA (Point Comfort) / LAVACA BAY	8/29/17	No			8/29/17	Calhoun
BAILEY WASTE DISPOSAL	9/1/17	Yes				Orange
BRINE SERVICE CO.	8/30/17	Yes	8/30/17	No	8/30/17	Nueces
BRIO REFINING INC.	9/1/17	No			9/1/17	Harris
CONROE CREOSOTING COMPANY	9/1/17	No			9/1/17	Montgomery
CRYSTAL CHEMICAL CO.	8/30/17	No			8/30/17	Harris
DIXIE OIL PROCESSORS INC.	9/1/17	No			9/1/17	Harris
FALCON REFINERY	8/30/17	Yes	8/30/17	No	8/30/17	San Patricio
FRENCH, LTD.	9/1/17	Yes	9/4/17	No	9/4/17	Harris
GENEVA INDUSTRIES / FUHRMANN ENERGY	9/1/17	Yes	9/3/17	No	9/3/17	Harris
GULFCO MARINE MAINTENANCE	9/1/17	Yes	9/3/17	No	9/3/17	Brazona
HARRIS (FARLEY STREET)	9/1/17	No			9/1/17	Harris
HART CREOSOTING	9/1/17	No			9/1/17	Jasper
HIGHLANDS ACID PIT	9/1/17	Yes	9/4/17	No	9/4/17	Harris
JASPER CREOSOTING	9/1/17	No			9/1/17	Harris
JONES ROAD GROUNDWATER PLUME	8/29/17	No			8/29/17	Harris
MALONE SERVICES COMPANY	9/1/17	Yes	9/4/17	No	9/4/17	Galveston
MANY DIVERSIFIED INTERESTS, INC	9/1/17	No			9/1/17	Harris

Superfund Sites within Federally Declared Counties						
Hurricane Harvey Rapid Response Assessment	Phase 1	Phase 2		Phase 3	All Phases Completed	County
	Rapid Response Assessment	Site Inspection Needed	Inspected	Additional Response Action		
MOTCO, INC.	8/31/17	No			8/31/17	Galveston
NORTH CAVALCADE STREET	8/29/17	No			8/29/17	Harris
PALMER BARGE LINE	9/1/17	No			9/1/17	Jefferson
PATRICK BAYOU	9/1/17	Yes	9/4/17	No	9/4/17	Harris
PETRO-CHEMICAL SYSTEMS, INC. (Turtle Bayou)	9/1/17	Yes	9/4/17	No	9/4/17	Liberty
SAN JACINTO RIVER WASTE PITS	9/1/17	Yes	9/3/17	Yes		Harris
SHERIDAN DISPOSAL	9/3/17	No			9/3/17	Waller
SIKES DISPOSAL PITS	8/29/17	No			8/29/17	Harris
SOL LYNN / INDUSTRIAL TRANSFORMERS	8/29/17	No			8/29/17	Harris
SOUTH CAVALCADE STREET	8/29/17	No			8/29/17	Harris
STAR LAKE CANAL	8/30/17	No			8/30/17	Harris
STATE MARINE OF PORT ARTHUR	9/1/17	No			9/1/17	Jefferson
TEX-TIN CORP.	9/1/17	No			9/1/17	Galveston
TRIANGLE CHEMICAL COMPANY	9/1/17	Yes				Galveston
UNITED CREOSOTING CO.	9/1/17	No			9/1/17	Montgomery
US OIL RECOVERY	9/1/17	Yes	9/4/17	Yes		Harris
LOUISIANA						
AMERICAN CREOSOTE DERIDDER	9/01/17	No			9/1/17	Beauregard
D.L. MUD, INC.	8/29/17	No			8/29/17	Vermillion
EVR-WOOD TREATING/EVANGELINE REFINING Co.	9/01/17	No			9/1/17	Acadia
GULF COAST VACUUM SERVICES	8/29/17	No			8/29/17	Vermillion
GULF STATE UTILITIES (North Ryan Street)	8/31/17	No			8/31/17	Calcasieu
MALLARD BAY LANDING BULK PLANT	8/29/17	No			8/29/17	Cameron
PAB OIL & CHEMICAL SERVICE	8/29/17	No			8/29/17	Vermillion
SBA SHIPYARD	9/01/17	No			9/1/17	Jefferson Davis
RUSTON FOUNDRY	9/3/17	No			9/3/17	Rapides
Status Summary						
Rapid Response Assessment Completed	43					
Sites with no further action	41					
Sites in Phase 2	2					

EPA Laboratory/Analytical Services:

EPA's Portable High-Throughput Integrated Laboratory Identification System (PHILIS) units were deployed from Denver to the Corpus Christi area. EPA is using PHILIS to process environmental samples and monitor at least six locations. All results from monitoring are currently at background conditions. An EPA Trace Atmospheric Gas Analyzer (TAGA) is a self-contained mobile laboratory capable of real-time monitoring as well as sampling and analysis of outdoor air or emissions. EPA's TAGA vehicle is in Houston supporting air monitoring.

EPA's Houston laboratory remains closed and is planned to reopen on September 8th. The laboratory and office building were not damaged. Region 6 has back-up capabilities for laboratory services. The mobile laboratory and response vehicles are secure and will be deployed as road conditions allow.

Air Monitoring

The EPA mobile air monitoring TAGA bus conducted air monitoring in the Houston area near the Valero Refinery. The TAGA detected benzene levels below the TCEQ Short Term Effects Screening Level (ESL), the threshold selected by the Houston Health Department as a level of concern. EPA toxicologists agree with the use of the short term ESL. The TAGA will continue assessing locations around the Houston Ship Channel and the Manchester area in southeast Houston, Texas.

Drinking Water/Wastewater Assessments:

EPA continues to support TCEQ in contacting owners and operators of DW/WW systems to determine their needs and operational status. Boil water orders have been issued as appropriate. Army of Corp of Engineers is working to locate pumps to provide additional water production capacity.

EPA is supporting drinking water and wastewater system assessments at the TCEQ Austin phone bank including assistance with data flow and technical regulatory questions. In addition, drinking water and wastewater assessment teams are currently established in Houston. Current Houston response activities consist of EPA personnel conducting drinking water and wastewater assessments in the Harris County area.

Drinking Water and Waste Water Assessments (as September 6 th)		
Assessment Types	Daily Assessments	Total Assessments
On-Site DW Assessments	50	168
On-Site WW Assessments	41	115
Phone DW Assessments	432	4510
Phone WW Assessments	98	2794

Other EPA Activities

Fuel Waivers:

Affected State	Waiver Request	Date Received	Status Talking Point	Waiver Response
Reid Vapor Pressure Requirements Waivers				
TX	Letter from TCEQ requesting a waiver of the RVP, RFG and TxLED standards in the Governor's Disaster Proclamation	8/25/17	Granted on 8/25/17	https://www.epa.gov/enforcement/eastern-and-coastal-texas-fuels-waiver
GA	Amended letter from GA Department of Natural Resources for Atlanta RVP to waive 7.8 RVP requirement to 11.5 RVP	8/29/17	Granted on 8/29/17	https://www.epa.gov/enforcement/louisiana-fuels-waiver
LA	Letter from LA governor requesting a waiver of the low RVP requirements.	8/28/17	Granted on 8/28/17	https://www.epa.gov/sites/production/files/2017-08/documents/louisianafuelswaiver082817.pdf
AR	The state is drafting a waiver request to temporarily waive the requirement for low 9.0lb RVP fuel.	8/31/17	N/A	N/A
OK	A statewide low RVP fuel waiver request was submitted and then the request was amended.	8/28/17	8/30/17	https://www.epa.gov/enforcement/second-multi-state-fuels-waivers
Dyed NRLM Diesel Fuel Waiver				
TX	Letter from TX comptroller requesting a waiver of using dyed NRLM diesel fuel in motor vehicles.	8/29/17	Granted on 8/29/17; IRS expanded to cover all of TX on 9/3/17	https://www.epa.gov/enforcement/texas-diesel-waiver

Affected State	Waiver Request	Date Received	Status Talking Point	Waiver Response
Florida	Florida Department of Environmental Protection requests use of 15 parts per million sulfur non-road diesel to be used as highway diesel fuel, waiving red dye requirements	9/6/17	Granted 9/6/17 through 9/22/17	URL pending
Low Volatility Conventional Gasoline and Reformulated Gasoline (RFG)				
CT, ME, MA, NH, RH, VT, DE, DC, MD, NJ, NY, and PA, FL, GA, NC, SC, VA, and WV; all mid-western states located in *PADD 2 - IL, IN, IA, KS, KY, MI, MN, MO, NE, ND, SD, OH, OK, TN, and WI; and all Gulf coast states located in PADD 3 –AL, AR, LA, MS, NM, and TX	Issuance of waivers based on requests for the allowance of regulated parties within the listed states to produce, sell, or distribute conventional winter gasoline (including BOBs) with an RVP of 11.5 psi before the addition of any ethanol in any RFG covered area. The waiver for El Paso goes until September 16 th due to their State Implementation Plan requirements.	8/30/17	Granted on 8/31/17	https://www.epa.gov/enforcement/second-multi-state-fuels-waivers

*PADD: Petroleum Administration for Defense Districts

Office of General Counsel: The EOC legal desk distributed to all EOC positions guidance from the Acting General Counsel on information management and record keeping.

Communications: On September 1st, EPA activated the Crisis Communication Plan to ensure rapid response to providing coordinated, accurate, up-to-date information regarding its field activities. EOC PIO continues to work on posting fact sheets on a variety of response topics, portraying EPA's role in the disaster and how each office provides support. On September 6th EPA HQ issued a press release discussing EPA's approval of emergency waivers (for Hurricanes Harvey and Irma) for Florida. They also jointly issued a press release with TCEQ providing an update on air quality and operational status of systems.

PIO deployments:

- A Public Affairs Officer has been deployed to the ESF-15 Joint Information Center in Austin.
- A Public Information Unit in R6 is fully operational and supported by a Public Information Assistance Team (PIAT).
- A PIO has also deployed to Corpus Christi to support operations at the ESF-10 Unified Command.